

Form PTO 1449 Rev. 7-80 U.S. Department of Commerce Patent and Trademark Office

LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)

Atty. Docket No. Mo-7002 / LeA 34,933

Serial No. 10/066,979

Applicant Dieter Arlt

Filing Date February 4, 2002

Group 1714

Sheet 1 of 1

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### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
<i>AA</i>	AA	5,244,857	09/14/93	<del>(Bel. to corresp. to EP 406,699)</del> Pugin et al	<del>502</del>	167	
<i>AB</i>	AB	5,252,751	10/12/93	<del>(Bel. to corresp. to EP 496,700)</del> Pugin et al	<del>549</del>	214	
<i>AC</i>	AC	5,306,853	04/26/94	<del>(Bel. to corresp. to EP 406,699)</del> Pugin et al	<del>585</del>	269	
<i>AD</i>	AD	5,308,819	05/03/94	<del>(Bel. to corresp. to EP 496,700)</del> Pugin et al	<del>502</del>	162	FEB 5 2003
<i>AE</i>	AE	5,382,729	01/17/95	<del>(Bel. to corresp. to EP 496,700)</del> Pugin et al	<del>585</del>	277	
<i>AF</i>	AF	5,432,289	07/11/95	<del>(Bel. to corresp. to EP 496,700)</del> Pugin et al	<del>549</del>	221	TC 1700
<i>AG</i>	AG	5,457,219	10/10/95	Forcher et al	556	404	
<i>AH</i>	AH	5,763,688	06/09/98	<del>(Bel. to corresp. to EP 718,265)</del> Ikariya et al	<del>568</del>	814	
<i>AI</i>	AI	5,935,892	08/10/99	Davis et al	502	156	
<i>AJ</i>	AJ	5,990,318	11/23/99	Chan et al	548	412	
<i>AK</i>	AK	6,162,951	12/19/00	<del>(Bel. to corresp. to GB 96-19604)</del> Polywka et al	<del>568</del>	13	

### FOREIGN PATENT DOCUMENTS

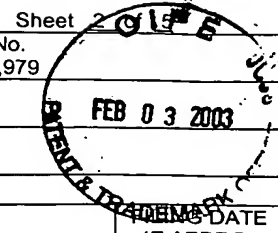
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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<i>AL</i>	AL	01/74828	10/11/01	World				X
<i>AM</i>	AM	2,170,100	08/25/96	<del>(Bel. to corresp. to EP 728,768)</del> Canada				
	AN							
	AO							
	AP							

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>AR</i>	AR	<i>AN</i>	AN 1999: 760462
<i>AS</i>	AS	<i>AN</i>	AN 1994: 557248
<i>AT</i>	AT	<i>AN</i>	AN 1998: 715053
EXAMINER		DATE CONSIDERED 7/03	
EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office <b>LIST OF PRIOR ART CITED BY APPLICANT</b> (Use Several Sheets If Necessary)	Atty. Docket No. Mo-7002 / LeA 34,933	Serial No. 10/066,979
		Applicant Dieter Arit	Group 1714
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### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR		J. Am. Chem. Soc., (month unavailable) 1999, 121, pgs. 7407-7408, Highly Effective Soluble Polymer-Supported Catalysts for Asymmetric Hydrogenation by Qing-hua Fan, Chang-yu Ren, Chi-hung Yeung, Wen-hao Hu and Albert S. C. Chan.
	AS		J. Org. Chem, (month unavailable) 1994, 59, pgs. 3064-3076, Cationic BINAP-Ru(II) Halide Complexes: Highly Efficient Catalyst for Stereoselective Asymmetric Hydrogenation of $\alpha$ - and $\beta$ -Functionalized Ketones by Kazushi Mashima, Koh-hei Kusano, Naomasa Sato, Yoh-ichi Matsumura, Kyoko Nozaki, Hidenori Kumobayashi, Noburu Sayo, Yoji Hori, Takero Ishizaki, Susumu Akutagawa, and Hidemasa Takaya.
	AT		J. Org. Chem., (month unavailable) 1998, 63, pgs. 3137-3140, Preparation and Use of a Polymer Supported BINAP Hydrogenation Catalyst by D. J. Bayston, J. L. Fraser, M. R. Ashton, A. D. Baxter, M. E. C. Polywka, and E. Moses.

EXAMINER 	DATE CONSIDERED 7/03
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**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

AR		Tetrahedron: Asymmetry, Vol. 2, No. 7, pgs. 555-567, (month unavailable) 1991, Asymmetric Synthesis. Practical Production of D and L Threonine. Dynamic Kinetic Resolution in Rhodium and Ruthenium Catalyzed Hydrogenation of 2-Acylamino-3-Oxobutyrate by J. P. Genet, C. Pinel, S. Mallart, S. Juge, S. Thorimbert and J. A. Laffitte.
AS		Tetrahedron Letters, Vol. 34, No. 12, pgs. 1905-1908, (month unavailable) 1993, Preparation of Primary Vicinal Diamines from Amino Acid Esters and Crystal Structure of a Chiral Nickel Salen Complex by Shiow-Jyi Wey, Kenneth J. O'Connor and Cynthia J. Burrows.
AT		Journal of Molecular Catalysts A: Chemical 107, (month unavailable) 1996, pgs. 273-279, Immobilized catalysts for enantioselective hydrogenation: The effect of site-isolation by B. Pugin.
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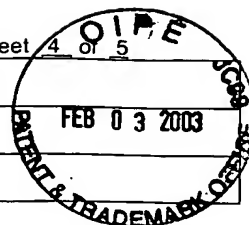
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AR		Synlett, No. 5, (month unavailable) 2000, pgs. 680-682, <i>Poly-NAP</i> as Ligand for the Asymmetric Hydrogenation of Ketones by Rob ter Halle, Emmanuelle Schulz, Michel Spagnol and M. Lemaire.
AS		Tetrahedron Letters, 41, (month unavailable) 2000, pgs. 643-646, <i>'Diam-BINAP'</i> ; a highly efficient monomer for the synthesis of heterogeneous enantioselective catalysts by Rob ter Halle, Benoist Colasson, Emmanuelle Schulz, Michel Spagnol and M. Lemaire.
AT		Abdur-Rashid K et al: "RuHCl(diphosphine)(diamine): Catalyst precursors for the stereoselective hydrogenation of ketones and imines" Organometallics, ACS, Columbus, OH, US, Bd. 20, Nr. 6, 19. Marz 2001 (2001-03-19), Seiten 1047-1049, XP001033320 ISSN:0276-7333, Abbildung 1, Seite 1047, rechte Spalte Seite 1048, rechte Spalte; Tabelle 1.

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
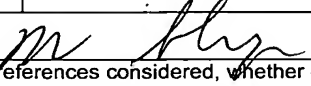
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	AR		Doucet H et al: "Trans- $\text{ArucI}_2(\text{phosphane})_2(1,2\text{-Diamine})\text{U}$ and Chiral Trans- $\text{ArucI}_2(\text{diphosphane})$ (1,2-diamine): Shelf-stable precatalysts for the rapid, productive, and stereoselective hydrogenation of ketones" Angewandte Chemie. International Edition, Verlag Chemie. Weinheim, DE, Bd. 37. 37, Nr. 12, 1998, Seiten 170-3-1707, XP002938991 ISSN: 0570-0833 das ganze Document.
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